GEOLOGICAL MAP OF NOVA SCOTIA

LEGEND

TIME SCALE

NORTHERN MAINLAND

FUNDY GROUP

- McCOY BROOK FORMATION ( ŧJM ) red wacke, siltstone, basalt
- NORTH MOUNTAIN FORMATION ( ŦJNM ) basalt
- Undivided LATE TRIASSIC ( lŦ )
- BLOMIDON FORMATION ( lŦB ) red siltstone, quartz wacke
- WOLFVILLE FORMATION ( lŦW ) red quartz wacke, siltstone, conglomerate

PICTOU & STELLARTON GROUPS

- lCP lCS Red and grey sandstone, siltstone, shale, conglomerate, coal. Informal rock units - dashed lines

CUMBERLAND GROUP

- Undivided CUMBERLAND GROUP ( lCC ) sandstone, shale, conglomerate
- ( lCCd ) Upper fine facies: red conglomerate, sandstone, siltstone
- ( lCCc ) Upper coarse facies: red conglomerate, sandstone
- ( lCCb ) Lower, fine, coal-bearing facies: grey sandstone, shale, coal
- ( lCCa ) Lower coarse facies: red conglomerate, shale, sandstone
- NEW GLASGOW FORMATION ( lCNG ) conglomerate, wacke

RIVERSDALE GROUP

- PARRSBORO ( lCPB ), BOSS POINT ( lCBP ) & PORT HOOD ( lCPH ) FORMATIONS arenite, siltstone, shale, conglomerate, mudstone
- CLAREMONT ( lCCM ) & MILLSVILLE ( lCMV ) FORMATIONS conglomerate, sandstone, wacke, siltstone
- POMQUET FORMATION ( lCPQ ) wacke, arenite, conglomerate, siltstone, slate

• CANSO GROUP

- Undivided CANSO GROUP ( CC ) LONDONDERRY ( CLD ), WEST BAY ( CW ), MIDDLEBOROUGH ( CMB ) & LISMORE ( CL ) FORMATIONS wacke, siltstone, conglomerate, shale

WINDSOR GROUP

- Undivided WINDSOR GROUP ( ECW ) C - E subzone ( ECWC ): CHURCHVILLE FORMATION sandstone, shale, mudstone, limestone
- B subzone ( ECWB ): FORBES LAKE FORMATION shale, mudstone, gypsum, sandstone, conglomerate
- A subzone ( ECWA ): BRIDGEVILLE & HOLMES BROOK FORMATIONS gypsum, anhydrite, limestone, dolostone, halite

HORTON GROUP

- Undivided HORTON GROUP ( ECH ) wacke, siltstone, arenite, mudstone, shale
- WILKIE BROOK FORMATION ( ECWB ) sandstone, siltstone, conglomerate, shale, limestone

- Undifferentiated DEVONO-CARBONIFEROUS ( DC ) conglomerate, wacke in NE; slate, argillite, siltstone, quartzite, conglomerate in SE
- GREVILLE RIVER FORMATION ( DCG ) wacke, siltstone, arenite
- RAPID BROOK FORMATION ( DCR ) wacke, conglomerate, siltstone
- NUTTBY FORMATION ( DCN ) siltstone, arenite, conglomerate
- FALLS FORMATION ( lDF ) red conglomerate, wacke, siltstone

FOUNTAIN LAKE GROUP ( MDFL )

- DIAMOND BROOK FORMATION ( MDD ) basalt, siltstone, wacke
- BYERS BROOK FORMATION ( MDB ) rhyolitic & dacitic flows & tuffs, siltstone, wacke
- McARAS BROOK FORMATION ( MDM ) conglomerate, arkose, shale, basalt
- ( ?DC ) Unnamed unit: conglomerate, mudstone, siltstone, sandstone
- ( ?DV ) Unnamed unit: basalt, rhyolite, tuff, sandstone, siltstone
- MURPHY BROOK FORMATION ( MDMB ) siltstone, conglomerate, wacke
- PORTAPIQUE RIVER ( EDP ) & KNOYDART ( EDK ) FORMATIONS siltstone, sandstone, mudstone, wacke, conglomerate
- Undifferentiated SILURO-DEVONIAN rocks ( SD ) including siltstone, wacke, conglomerate, arenite
- WILSON BROOK ( SW ) & EARLTOWN ( SE ) FORMATIONS siltstone, shale, wacke, rhyolite ( V ), basalt felsic tuff
- KERROWGARE & GLENCOE BROOK FORMATIONS ( SQ/K ) shale, slate, mudstone, sandstone
- ARISAIG GROUP ( SA ): STONEHOUSE, MOYDART, McADAM BROOK, FRENCH RIVER, ROSS BROOK & BEECHHILL COVE FORMATIONS siltstone, shale, limestone, mudstone, conglomerate
- BEAR BROOK ( OSB ), McGILLIVRAY BROOK & DUNN POINT ( OSM/D ) FORMATIONS basalt, rhyolite, ignimbrite, felsic tuff, red laterite, conglomerate, sandstone
- SUNNYBRAE FORMATION ( OSS ) slate, shale, felsic tuff
- KEPPOCH FORMATION ( CK ) rhyolite, felsic tuff

IRON BROOK & McDONALDS BROOK GROUPS

- IRON BROOK GROUP ( E/MCI ): FERRONA, LITTLE HOLLOW & BLACK JOHN FORMATIONS iron formation, quartzite, felsic & mafic tuff, slate, siltstone, limestone, red sandstone & conglomerate
- McDONALDS BROOK GROUP ( E/MCM ): ARBUCKLE BROOK & MALIGNANT COVE FORMATIONS basalt, rhyolite, felsic & mafic tuff, red slate, siltstone, sandstone, conglomerate
- Undifferentiated HADRYNIAN-CAMBRIAN ( H-C ) mafic & felsic volcanic rocks, wacke, argillite, siltstone, phyllite, quartzite
- JEFFERS ( HJ ) & WARWICK MOUNTAIN ( HW ) FORMATIONS phyllite, felsic tuff, mafic meta-volcanic rocks, agglomerate, wacke, marble, siltstone
- GEORGEVILLE GROUP ( HGV ): LIVINGSTONE COVE, MORAR BROOK & CHISHOLM BROOK FORMATIONS basaltic flows & tuff, marble, mudstone, siltstone, chert, conglomerate

BASS RIVER COMPLEX

- GREAT VILLAGE RIVER GNEISS ( PGV ) hornblende - plagioclase gneiss
- GAMBLE BROOK SCHIST ( PGB ) quartzite, quartz-mica schist
- FOLLY RIVER SCHIST ( PF ) chlorite schist, mafic meta-volcanic rocks, quartzite

MOUNT THOM COMPLEX

- PMT gneiss, amphibolite, schist, granite gneiss

PLUTONIC ROCKS

- Cgt, DCgt, Dgt: granitoid
- CA: alaskite, porphyry
- CG, DCG, DG: granite ( G ), minor porphyry
- DCSG: syeno-granite ( SG )
- DCMG: monzo-granite ( MG )
- DCQM: quartz monzonite
- DCgd, Cgd, Dgd: granodiorite
- DCT: tonalite ( T )
- DCTT: trondjhemite
- DCd, Dd: diorite, dioritoid

Plutonic rocks of unknown age are left without ornamentation and age letter.

- CA, HA: alaskite
- Cgt, HCgt, Hgt: granitoid
- CG, HCG: granite, rhyolite ( V V V )
- HS: syenite
- CQM: quartz monzonite
- Cgd, Hgd, HCgd: granodiorite
- Hd: diorite, dioritoid
- HAN: anorthosite
- HCgb, Hgb: gabbro, gabbroid
- PU: ultramafic

MEGUMA GROUP

- HALIFAX FORMATION ( COH ) slate, siltstone, rare limestone at base
- Metamorphosed HALIFAX FORMATION ( COHM ) schist
- GOLDENVILLE FORMATION ( COG ) greywacke, slate
- Metamorphosed GOLDENVILLE FORMATION ( COGM ) schist
- GOLDENVILLE FORMATION pervasively injected by granite ( COGg )
- ( ?COgn ) Gneiss and migmatite (may be metamorphosed equivalents of Meguma Group)

- Diabase dyke. Age, if known, indicated
- Geological boundary
- Fault
- Normal fault, downthrow indicated
- Wrench fault
- Reverse or thrust fault

OPEN FILE MAP 88-050

# TILL GEOCHEMISTRY OF NORTHERN MAINLAND NOVA SCOTIA CLAY FRACTION ANALYSES

## Map 13-88


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NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY

Jack MacIsaac, Minister

John J. Laffin, P. Eng., FEIC, Deputy Minister


SCALE 1:100,000

## ACKNOWLEDGMENTS


Map 13: Open File No. 88-050

Cartography: Maritime Resource Management Service, Amherst; Nova Scotia Department of Mines and Energy, Halifax

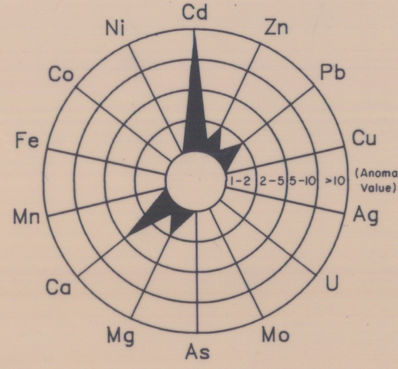
Geochemistry: R. G. Turner, R. R. Stea

Geology: Adapted from Geological Map of the Province of Nova Scotia, Nova Scotia Department of Mines and Energy, 1979, J. D. Keppie (compiler).


## GEOCHEMICAL ANALYSES

| SAMPLE NUMBER | DEPTH (M) | Ag (ppm) | Cu (ppm) | Pb (ppm) | Zn (ppm) | Cd (ppm) | Ni (ppm) | Co (ppm) | Fe (%) | Mn (ppm) | Ca (ppm) | Mg (ppm) | As (ppm) | Mo (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T-85-146 | 1.0 | 0.05 | 37 | 47 | 210 | 0.1 | 40 | 14 | 3.5 | 1210 | 4650 | 7890 | 13 | 0.5 | 0.7 |
| T-85-168 | 1.0 | 0.05 | 45 | 23 | 109 | 0.2 | 41 | 15 | 3.8 | 1320 | 608 | 8650 | 14 | 0.5 | 0.5 |
| T-85-171 | 1.5 | 0.05 | 48 | 45 | 132 | 0.1 | 37 | 15 | 2.8 | 1100 | 537 | 9705 | 15 | 1.0 | 1.2 |
| T-85-172 | 1.5 | 0.05 | 72 | 33 | 177 | 0.1 | 57 | 20 | 4.4 | 1760 | 2830 | 14780 | 12 | 1.0 | 0.7 |
| T-85-173 | 1.0 | 0.30 | 48 | 39 | 261 | 0.1 | 44 | 18 | 4.0 | 1650 | 1990 | 8410 | 20 | 1.0 | 1.1 |
| T-85-174 | 2.0 | 0.20 | 1430 | 41 | 208 | 0.1 | 31 | 22 | 4.2 | 3190 | 414 | 11785 | 32 | 1.0 | 1.7 |
| T-85-175 | 1.0 | 0.05 | 32 | 31 | 133 | 0.1 | 50 | 17 | 4.2 | 748 | 2260 | 8660 | 17 | 0.5 | 1.7 |
| T-85-180 | 2.0 | 0.05 | 40 | 30 | 133 | 0.1 | 33 | 26 | 3.5 | 2420 | 161 | 6955 | 18 | 0.5 | 1.2 |
| T-85-182 | 1.0 | 0.05 | 30 | 23 | 120 | 0.1 | 39 | 17 | 4.1 | 1100 | 1263 | 10885 | 20 | 0.5 | 1.2 |
| T-85-183 | 1.0 | 0.05 | 21 | 22 | 81 | 0.1 | 22 | 9 | 2.6 | 429 | 383 | 5835 | 12 | 0.5 | 1.7 |
| T-85-184 | 1.8 | 0.20 | 36 | 42 | 270 | 0.1 | 42 | 19 | 3.6 | 1155 | 2320 | 8675 | 24 | 1.0 | 0.7 |
| T-85-214 | 2.5 | 0.05 | 21 | 21 | 98 | 0.1 | 39 | 15 | 2.9 | 726 | 5520 | 6450 | 21 | 0.5 | 1.0 |
| T-86-002 | 1.0 | 0.40 | 37 | 19 | 98 | 0.1 | 43 | 19 | 4.1 | 1760 | 1480 | 6010 | 21 | 1.0 | 0.7 |
| T-86-003 | 2.5 | 0.05 | 39 | 13 | 80 | 0.1 | 44 | 17 | 4.1 | 1320 | 1050 | 7020 | 21 | 0.5 | 1.2 |
| T-86-004 | 2.0 | 0.30 | 102 | 127 | 274 | 0.1 | 70 | 22 | 6.7 | 7700 | 269 | 10120 | 34 | 2.0 | 2.1 |
| T-86-005 | 1.0 | 0.10 | 84 | 50 | 262 | 0.2 | 50 | 23 | 6.2 | 6160 | 155 | 5940 | 42 | 0.5 | 1.2 |
| T-86-006 | 1.0 | 1.40 | 74 | 145 | 117 | 0.1 | 2 | 10 | 17.6 | 1980 | 174 | 3000 | 26 | 33.0 | 6.1 |
| T-86-007 | 1.5 | 0.05 | 42 | 146 | 153 | 0.1 | 25 | 26 | 4.1 | 1980 | 675 | 5700 | 45 | 2.0 | 8.3 |
| T-86-008 | 1.0 | 0.05 | 84 | 20 | 81 | 0.1 | 54 | 31 | 5.5 | 4400 | 81 | 5980 | 40 | 0.5 | 1.9 |
| T-86-009 | 1.5 | 0.05 | 65 | 25 | 114 | 0.1 | 48 | 17 | 5.2 | 1760 | 92 | 5320 | 37 | 0.5 | 1.8 |
| T-86-010 | 1.5 | 0.05 | 76 | 36 | 133 | 0.1 | 58 | 23 | 5.5 | 2530 | 137 | 10000 | 28 | 0.5 | 2.9 |
| T-86-011 | 1.5 | 0.05 | 66 | 17 | 100 | 0.1 | 70 | 28 | 4.8 | 1320 | 151 | 11240 | 26 | 0.5 | 1.4 |
| T-86-012 | 1.0 | 0.05 | 75 | 51 | 220 | 0.1 | 56 | 30 | 5.8 | 4840 | 113 | 5940 | 39 | 0.5 | 1.0 |
| T-86-013 | 1.5 | 0.05 | 51 | 24 | 109 | 0.1 | 53 | 20 | 5.2 | 1540 | 295 | 10060 | 24 | 1.0 | 1.4 |
| T-86-014 | 3.0 | 0.20 | 56 | 13 | 94 | 0.1 | 55 | 20 | 5.3 | 1210 | 1560 | 12090 | 28 | 1.0 | 1.0 |
| T-86-015 | 4.0 | 0.05 | 66 | 17 | 86 | 0.1 | 65 | 30 | 5.0 | 1650 | 2050 | 12370 | 28 | 0.5 | 1.8 |
| T-86-016 | 1.0 | 0.05 | 58 | 12 | 95 | 0.1 | 52 | 19 | 4.3 | 3300 | 89 | 5690 | 30 | 0.5 | 1.4 |
| T-86-017 | 1.0 | 0.05 | 65 | 13 | 79 | 0.1 | 55 | 22 | 5.3 | 1540 | 308 | 7800 | 30 | 0.5 | 2.1 |
| T-86-018 | 1.5 | 0.05 | 66 | 14 | 70 | 0.1 | 46 | 29 | 5.3 | 5280 | 129 | 6230 | 44 | 1.0 | 1.6 |
| T-86-019 | 1.5 | 0.05 | 67 | 13 | 78 | 0.1 | 51 | 29 | 5.2 | 4950 | 99 | 5800 | 37 | 0.5 | 1.2 |
| T-86-022 | 1.0 | 0.20 | 59 | 14 | 72 | 0.1 | 51 | 20 | 4.6 | 2420 | 79 | 7010 | 33 | 1.0 | 1.7 |
| T-86-023 | 1.5 | 0.05 | 62 | 58 | 316 | 0.1 | 44 | 26 | 5.5 | 3520 | 169 | 4620 | 120 | 2.0 | 1.0 |
| T-86-024 | 1.5 | 0.05 | 76 | 12 | 67 | 0.1 | 64 | 23 | 5.4 | 902 | 96 | 11550 | 49 | 0.5 | 1.2 |
| T-86-025 | 1.5 | 0.05 | 80 | 28 | 142 | 0.1 | 89 | 32 | 6.7 | 1760 | 1680 | 17890 | 23 | 0.5 | 1.0 |
| T-86-026 | 1.5 | 0.05 | 61 | 29 | 120 | 0.1 | 64 | 22 | 4.5 | 957 | 154 | 11650 | 20 | 0.5 | 1.2 |
| T-86-027 | 1.5 | 0.05 | 80 | 35 | 130 | 0.1 | 75 | 33 | 4.7 | 1430 | 171 | 13920 | 21 | 0.5 | 0.7 |
| T-86-028 | 1.0 | 0.05 | 66 | 21 | 109 | 0.1 | 63 | 32 | 6.2 | 1760 | 352 | 15480 | 14 | 0.5 | 0.7 |
| T-86-029 | 1.0 | 0.05 | 66 | 19 | 86 | 0.1 | 63 | 25 | 5.7 | 1100 | 1720 | 14130 | 19 | 0.5 | 0.7 |
| T-86-030 | 1.5 | 0.05 | 67 | 20 | 97 | 0.1 | 63 | 26 | 5.6 | 1320 | 619 | 13480 | 26 | 0.5 | 0.5 |
| T-86-031 | 1.0 | 0.30 | 68 | 15 | 106 | 0.1 | 59 | 29 | 5.5 | 1320 | 526 | 13360 | 23 | 1.0 | 1.0 |
| T-86-033 | 2.0 | 0.30 | 119 | 31 | 102 | 0.1 | 79 | 28 | 5.1 | 1540 | 180 | 14170 | 29 | 1.0 | 0.7 |
| T-86-034 | 2.0 | 0.05 | 86 | 22 | 88 | 0.1 | 66 | 39 | 5.9 | 1860 | 374 | 17000 | 33 | 1.0 | 1.0 |
| T-86-035 | 1.0 | 0.05 | 58 | 17 | 85 | 0.1 | 46 | 18 | 3.5 | 858 | 137 | 10300 | 16 | 0.5 | 0.6 |
| T-86-036 | 1.0 | 0.05 | 76 | 51 | 135 | 0.1 | 54 | 35 | 5.5 | 5500 | 262 | 8130 | 39 | 2.0 | 0.4 |
| T-86-037 | 1.0 | 0.05 | 66 | 18 | 105 | 0.1 | 57 | 25 | 5.0 | 1210 | 1220 | 12390 | 41 | 0.5 | 1.2 |
| T-86-039 | 1.0 | 0.05 | 78 | 22 | 90 | 0.1 | 43 | 17 | 3.3 | 1870 | 205 | 7920 | 15 | 0.5 | 0.5 |
| T-86-040 | 1.0 | 0.05 | 81 | 11 | 77 | 0.1 | 54 | 24 | 4.8 | 2530 | 257 | 9840 | 12 | 0.5 | 0.4 |
| T-86-042 | 2.0 | 0.05 | 67 | 23 | 66 | 0.1 | 52 | 30 | 5.5 | 3190 | 208 | 10410 | 17 | 0.5 | 0.7 |
| T-86-043 | 1.5 | 0.05 | 35 | 18 | 98 | 0.1 | 41 | 17 | 4.0 | 946 | 1040 | 10820 | 15 | 0.5 | 0.6 |
| T-86-044 | 1.5 | 0.05 | 73 | 17 | 79 | 0.1 | 47 | 18 | 3.6 | 2420 | 1010 | 12670 | 10 | 0.5 | 0.4 |
| T-86-045 | 1.0 | 0.05 | 46 | 18 | 85 | 0.1 | 42 | 20 | 3.7 | 1100 | 173 | 8810 | 14 | 0.5 | 0.5 |
| T-86-046 | 1.0 | 0.05 | 92 | 19 | 69 | 0.1 | 24 | 15 | 36.9 | 7480 | 1690 | 8170 | 29 | 0.5 | 1.0 |
| T-86-047 | 0.8 | 0.10 | 39 | 17 | 95 | 0.2 | 37 | 17 | 4.0 | 858 | 87 | 8470 | 10 | 0.5 | 0.3 |
| T-86-049 | 1.5 | 0.05 | 39 | 41 | 103 | 0.1 | 42 | 26 | 4.5 | 1760 | 87 | 8120 | 15 | 0.5 | 0.3 |
| T-86-050 | 1.0 | 0.05 | 31 | 15 | 87 | 0.1 | 39 | 17 | 4.2 | 770 | 5840 | 10410 | 15 | 0.5 | 0.7 |
| T-86-051 | 2.0 | 0.10 | 48 | 63 | 163 | 0.2 | 45 | 24 | 5.0 | 1210 | 242 | 8110 | 31 | 0.5 | 0.7 |
| T-86-052 | 1.0 | 0.05 | 45 | 10 | 73 | 0.1 | 70 | 28 | 5.0 | 968 | 1890 | 13890 | 20 | 0.5 | 0.9 |
| T-86-053 | 1.5 | 0.05 | 66 | 22 | 152 | 0.1 | 68 | 23 | 5.9 | 1023 | 1670 | 15220 | 36 | 0.5 | 0.5 |
| T-86-054 | 1.5 | 0.05 | 30 | 13 | 89 | 0.1 | 43 | 17 | 4.1 | 880 | 847 | 9010 | 11 | 0.5 | 0.3 |
| T-86-055 | 1.5 | 0.05 | 28 | 17 | 111 | 0.1 | 48 | 17 | 4.5 | 660 | 704 | 8560 | 17 | 0.5 | 1.0 |
| T-86-056 | 1.5 | 0.05 | 30 | 15 | 97 | 0.1 | 48 | 18 | 5.0 | 913 | 494 | 9920 | 20 | 0.5 | 1.0 |
| T-86-057 | 2.0 | 0.05 | 88 | 81 | 105 | 0.1 | 61 | 62 | 5.4 | 3300 | 186 | 9430 | 25 | 2.0 | 0.3 |
| T-86-058 | 1.0 | 0.05 | 33 | 17 | 112 | 0.1 | 50 | 18 | 3.9 | 693 | 76 | 10180 | 16 | 0.5 | 1.2 |
| T-86-059 | 1.0 | 0.05 | 34 | 83 | 123 | 0.1 | 56 | 18 | 5.2 | 990 | 887 | 20000 | 14 | 0.5 | 0.7 |
| T-86-060 | 1.0 | 0.05 | 50 | 20 | 105 | 0.1 | 54 | 13 | 4.8 | 638 | 2460 | 10010 | 20 | 0.5 | 0.7 |
| T-86-062 | 1.5 | 0.05 | 32 | 17 | 117 | 0.1 | 48 | 21 | 4.4 | 836 | 2220 | 11330 | 10 | 0.5 | 0.3 |
| T-86-063 | 1.0 | 0.05 | 34 | 19 | 109 | 0.1 | 53 | 19 | 5.6 | 704 | 7370 | 11420 | 18 | 0.5 | 1.1 |
| T-86-064 | 0.8 | 0.05 | 50 | 23 | 136 | 0.1 | 54 | 18 | 5.1 | 990 | 1500 | 9620 | 19 | 0.5 | 0.7 |
| T-86-065 | 2.0 | 0.05 | 87 | 41 | 153 | 0.1 | 42 | 21 | 4.4 | 3520 | 255 | 8410 | 35 | 0.5 | 0.7 |
| T-86-066 | 1.5 | 0.05 | 36 | 22 | 107 | 0.1 | 45 | 19 | 4.4 | 902 | 1020 | 10590 | 19 | 0.5 | 0.7 |
| T-86-067 | 2.0 | 0.10 | 39 | 47 | 168 | 0.2 | 46 | 21 | 5.0 | 1540 | 2750 | 9020 | 18 | 0.5 | 0.5 |
| T-86-068 | 1.0 | 0.05 | 35 | 19 | 107 | 0.1 | 51 | 20 | 4.4 | 1100 | 1300 | 9040 | 13 | 0.5 | 0.5 |
| T-86-069 | 1.0 | 0.05 | 32 | 19 | 111 | 0.1 | 46 | 18 | 4.8 | 836 | 1990 | 10750 | 15 | 0.5 | 1.0 |
| T-86-071 | 1.5 | 0.05 | 55 | 25 | 166 | 0.1 | 50 | 18 | 5.2 | 1430 | 2030 | 14210 | 18 | 0.5 | 1.4 |
| T-86-072 | 1.0 | 0.05 | 40 | 28 | 173 | 0.1 | 43 | 19 | 5.4 | 1540 | 2730 | 13420 | 13 | 0.5 | 0.5 |
| T-86-073 | 1.0 | 0.05 | 59 | 48 | 233 | 0.1 | 43 | 18 | 5.3 | 1210 | 2300 | 15200 | 21 | 0.5 | 0.9 |
| T-86-074 | 1.0 | 0.05 | 42 | 26 | 123 | 0.1 | 51 | 18 | 5.1 | 1320 | 2740 | 15050 | 15 | 0.5 | 0.7 |
| T-86-075 | 1.0 | 0.05 | 36 | 21 | 122 | 0.1 | 50 | 14 | 4.7 | 572 | 4680 | 16160 | 22 | 0.5 | 0.7 |
| T-86-076 | 4.0 | 0.05 | 19 | 23 | 100 | 0.1 | 52 | 19 | 5.5 | 374 | 3250 | 10950 | 17 | 0.5 | 1.0 |
| T-86-077 | 3.0 | 0.05 | 64 | 25 | 105 | 0.1 | 54 | 26 | 5.4 | 1760 | 15800 | 13510 | 45 | 2.0 | 0.2 |
| T-86-078 | 2.5 | 0.05 | 32 | 39 | 152 | 0.1 | 51 | 19 | 5.1 | 440 | 4650 | 12870 | 16 | 0.5 | 0.9 |
| T-86-079 | 1.0 | 0.10 | 95 | 183 | 297 | 0.4 | 48 | 18 | 5.3 | 2860 | 189 | 10900 | 34 | 0.5 | 1.0 |
| T-86-080 | 1.0 | 0.05 | 29 | 79 | 198 | 0.1 | 53 | 20 | 5.3 | 473 | 5600 | 13660 | 18 | 0.5 | 0.5 |
| T-86-082 | 1.0 | 0.20 | 109 | 42 | 91 | 0.1 | 46 | 14 | 4.6 | 1650 | 414 | 11760 | 24 | 1.0 | 1.0 |
| T-86-083 | 1.5 | 0.05 | 108 | 46 | 123 | 0.1 | 52 | 17 | 5.2 | 1540 | 4160 | 14070 | 22 | 0.5 | 0.5 |
| T-86-084 | 1.0 | 0.05 | 34 | 23 | 55 | 0.1 | 32 | 29 | 5.2 | 6380 | 124 | 5410 | 20 | 0.5 | 0.2 |
| T-86-085 | 1.0 | 0.05 | 48 | 31 | 107 | 0.1 | 47 | 20 | 5.4 | 968 | 1380 | 11900 | 20 | 0.5 | 0.2 |
| T-86-086 | 1.0 | 0.05 | 57 | 25 | 118 | 0.1 | 51 | 18 | 4.7 | 1012 | 625 | 10390 | 19 | 0.5 | 0.2 |
| T-86-087 | 1.5 | 0.05 | 53 | 46 | 119 | 0.1 | 59 | 30 | 5.0 | 1980 | 1460 | 10120 | 22 | 0.5 | 0.2 |
| T-86-089 | 1.0 | 0.05 | 86 | 51 | 140 | 0.1 | 57 | 32 | 4.3 | 1980 | 105 | 8880 | 34 | 0.5 | 0.7 |
| T-86-090 | 1.5 | 0.05 | 65 | 45 | 116 | 0.1 | 48 | 22 | 4.8 | 1430 | 108 | 10030 | 27 | 0.5 | 0.5 |
| T-86-091 | 1.5 | 0.05 | 95 | 68 | 265 | 0.1 | 56 | 20 | 4.7 | 1980 | 188 | 11700 | 32 | 1.0 | 0.8 |
| T-86-092 | 1.5 | 0.05 | 57 | 22 | 103 | 0.1 | 54 | 22 | 5.0 | 1980 | 1010 | 18080 | 16 | 0.5 | 0.2 |
| T-86-093 | 2.0 | 0.05 | 19 | 15 | 700 | 0.1 | 47 | 19 | 5.3 | 2420 | 655 | 13930 | 12 | 0.5 | 0.2 |
| T-86-094 | 2.0 | 0.05 | 45 | 42 | 188 | 0.1 | 52 | 18 | 4.8 | 1056 | 1710 | 10950 | 25 | 0.5 | 0.2 |
| T-86-095 | 2.0 | 0.10 | 40 | 40 | 169 | 0.2 | 56 | 23 | 5.2 | 1650 | 2960 | 13380 | 20 | 0.5 | 0.3 |
| T-86-096 | 1.0 | 0.05 | 48 | 17 | 86 | 0.1 | 65 | 18 | 4.7 | 1100 | 5490 | 10770 | 17 | 0.5 | 0.2 |
| T-86-097 | 3.0 | 0.05 | 27 | 31 | 133 | 0.1 | 54 | 19 | 5.1 | 682 | 12040 | 10770 | 16 | 0.5 | 0.2 |
| T-86-098 | 2.0 | 0.05 | 102 | 35 | 242 | 0.1 | 52 | 19 | 5.4 | 924 | 7720 | 11260 | 22 | 0.5 | 0.7 |
| T-86-099 | 3.0 | 0.05 | 41 | 30 | 106 | 0.1 | 47 | 15 | 5.3 | 495 | 7990 | 12900 | 21 | 0.5 | 0.5 |
| T-86-100 | 3.0 | 0.05 | 34 | 48 | 205 | 0.1 | 51 | 19 | 5.5 | 770 | 584 | 11710 | 20 | 0.5 | 0.2 |
| T-86-102 | 1.0 | 0.10 | 143 | 98 | 271 | 0.2 | 54 | 24 | 5.5 | 2640 | 356 | 9970 | 37 | 0.5 | 0.7 |
| T-86-103 | 1.0 | 0.60 | 140 | 132 | 254 | 1.4 | 66 | 74 | 5.8 | 7260 | 231 | 4530 | 93 | 2.0 | 0.6 |
| T-86-104 | 1.0 | 0.30 | 57 | 40 | 327 | 0.2 | 53 | 18 | 5.7 | 1012 | 2280 | 11730 | 17 | 1.0 | 0.5 |
| T-86-105 | 5.0 | 0.05 | 86 | 42 | 144 | 0.1 | 33 | 18 | 4.3 | 1980 | 423 | 7590 | 9 | 0.5 | 0.8 |
| T-86-106 | 1.0 | 0.05 | 123 | 183 | 193 | 0.1 | 61 | 32 | 7.5 | 946 | 259 | 8010 | 64 | 3.0 | 0.8 |
| T-86-107 | 1.0 | 0.05 | 42 | 43 | 158 | 0.1 | 48 | 18 | 4.5 | 1210 | 192 | 7600 | 27 | 0.5 | 0.6 |
| T-86-108 | 1.0 | 0.05 | 51 | 34 | 182 | 0.1 | 51 | 19 | 4.4 | 1540 | 167 | 11000 | 21 | 0.5 | 0.5 |
| T-86-109 | 1.5 | 0.05 | 58 | 45 | 145 | 0.1 | 54 | 24 | 5.5 | 1760 | 1050 | 7480 | 29 | 0.5 | 1.0 |
| T-86-110 | 1.5 | 0.05 | 72 | 29 | 158 | 0.1 | 52 | 24 | 5.2 | 1320 | 345 | 8550 | 31 | 0.5 | 0.5 |
| T-86-111 | 1.0 | 0.05 | 55 | 30 | 158 | 0.1 | 56 | 28 | 5.0 | 1980 | 646 | 9360 | 36 | 0.5 | 0.5 |
| T-86-112 | 3.0 | 0.30 | 61 | 52 | 158 | 0.1 | 54 | 25 | 5.0 | 1540 | 284 | 8350 | 29 | 1.0 | 0.5 |
| T-86-113 | 1.5 | 0.05 | 53 | 72 | 226 | 0.1 | 55 | 23 | 4.7 | 1430 | 147 | 8610 | 35 | 0.5 | 1.3 |
| T-86-114 | 1.0 | 0.05 | 39 | 32 | 122 | 0.1 | 50 | 18 | 4.4 | 1056 | 362 | 7950 | 15 | 0.5 | 0.5 |
| T-86-115 | 1.5 | 0.05 | 50 | 32 | 147 | 0.1 | 55 | 26 | 5.2 | 1540 | 326 | 1220 | 29 | 0.5 | 0.7 |
| T-86-116 | 1.0 | 0.05 | 118 | 30 | 149 | 0.1 | 55 | 25 | 5.5 | 1760 | 644 | 9490 | 34 | 0.5 | 0.5 |
| T-86-117 | 1.0 | 0.05 | 45 | 37 | 153 | 0.1 | 51 | 18 | 5.4 | 1320 | 1060 | 8860 | 18 | 0.5 | 0.7 |
| T-86-118 | 1.0 | 0.05 | 48 | 31 | 139 | 0.1 | 57 | 21 | 5.1 | 1100 | 1680 | 9570 | 15 | 0.5 | 0.5 |
| T-86-119 | 3.0 | 0.05 | 61 | 19 | 99 | 0.1 | 43 | 18 | 4.2 | 1320 | 1350 | 5570 | 11 | 0.5 | 0.7 |
| T-86-122 | 2.0 | 0.20 | 46 | 8 | 81 | 0.1 | 42 | 44 | 5.5 | 1100 | 230 | 7850 | 23 | 1.0 | 1.5 |
| T-86-123 | 10.0 | 0.60 | 35 | 41 | 110 | 0.1 | 56 | 18 | 4.6 | 946 | 7730 | 15270 | 15 | 2.0 | 0.8 |
| T-86-124 | 1.5 | 0.30 | 240 | 37 | 362 | 0.2 | 110 | 43 | 5.1 | 3520 | 1150 | 20000 | 24 | 1.0 | 0.4 |
| T-86-126 | 1.5 | 0.05 | 63 | 24 | 119 | 0.1 | 67 | 23 | 4.6 | 1760 | 135 | 8170 | 16 | 0.5 | 1.0 |
| T-86-127 | 2.0 | 0.05 | 157 | 53 | 108 | 0.1 | 65 | 26 | 4.7 | 2860 | 249 | 13200 | 31 | 1.0 | 0.4 |
| T-86-128 | 1.5 | 0.05 | 69 | 47 | 151 | 0.1 | 57 | 24 | 5.1 | 2420 | 324 | 12190 | 20 | 1.0 | 0.4 |
| T-86-129 | 1.5 | 0.05 | 59 | 18 | 43 | 0.1 | 47 | 18 | 4.0 | 1870 | 233 | 8470 | 16 | 0.5 | 0.4 |
| T-86-130 | 1.5 | 0.10 | 65 | 32 | 140 | 0.2 | 53 | 21 | 5.1 | 1320 | 1790 | 8420 | 19 | 1.0 | 0.6 |
| T-86-131 | 1.0 | 0.20 | 41 | 40 | 147 | 0.1 | 54 | 21 | 5.3 | 1540 | 1190 | 8100 | 19 | 1.0 | 0.3 |
| T-86-132 | 1.5 | 0.05 | 42 | 34 | 155 | 0.1 | 54 | 19 | 5.4 | 704 | 3120 | 7820 | 18 | 1.0 | 0.5 |
| T-86-133 | 1.0 | 0.20 | 41 | 43 | 142 | 0.3 | 59 | 24 | 4.5 | 1540 | 1150 | 10760 | 18 | 1.0 | 0.4 |
| T-86-134 | 1.5 | 0.05 | 34 | 15 | 113 | 0.1 | 105 | 43 | 5.0 | 3190 | 317 | 13210 | 12 | 0.5 | 0.6 |
| T-86-135 | 2.0 | 0.60 | 1151 | 347 | 565 | 0.4 | 77 | 103 | 6.6 | 3080 | 458 | 13090 | 224 | 2.0 | 0.7 |
| T-86-136 | 1.0 | 0.05 | 160 | 31 | 218 | 0.1 | 106 | 31 | 5.1 | 1760 | 1390 | 20000 | 17 | 0.5 | 0.4 |
| T-86-137 | 1.5 | 0.05 | 191 | 28 | 179 | 0.1 | 97 | 32 | 5.0 | 2090 | 1400 | 20000 | 19 | 0.5 | 0.3 |
| T-86-138 | 1.0 | 0.05 | 122 | 45 | 306 | 0.1 | 69 | 45 | 5.7 | 3520 | 444 | 16020 | 51 | 3.0 | 1.7 |
| T-86-139 | 1.0 | 0.05 | 86 | 42 | 117 | 0.1 | 63 | 25 | 5.3 | 1430 | 11 | 13080 | 67 | 3.0 | 0.8 |
| T-86-140 | 6.0 | 0.05 | 67 | 23 | 95 | 0.1 | 66 | 26 | 5.0 | 913 | 4360 | 20000 | 12 | 0.5 | 0.6 |
| T-86-142 | 1.5 | 0.05 | 69 | 47 | 118 | 0.1 | 72 | 32 | 5.8 | 1540 | 458 | 16570 | 43 | 0.5 | 0.8 |
| T-86-143 | 1.5 | 0.05 | 78 | 48 | 94 | 0.1 | 40 | 18 | 7.6 | 1320 | 1 | 12220 | 89 | 14.0 | 2.7 |
| T-86-144 | 2.0 | 0.20 | 418 | 113 | 204 | 0.1 | 112 | 53 | 6.1 | 2530 | 107 | 13690 | 98 | 10.0 | 7.7 |
| T-86-145 | 1.5 | 0.05 | 201 | 34 | 143 | 0.1 | 94 | 42 | 5.4 | 1650 | 91 | 13610 | 65 | 11.0 | 3.4 |
| T-86-148 | 1.0 | 0.05 | 39 | 42 | 135 | 0.1 | 56 | 22 | 5.2 | 1430 | 1650 | 12710 | 17 | 0.5 | 0.5 |
| T-86-149 | 1.0 | 0.05 | 41 | 44 | 151 | 0.1 | 55 | 23 | 4.5 | 1650 | 581 | 11620 | 23 | 0.5 | 0.2 |
| T-86-151 | 2.0 | 0.05 | 117 | 36 | 130 | 0.1 | 63 | 26 | 4.8 | 1540 | 235 | 17120 | 29 | 0.5 | 0.8 |
| T-86-152 | 1.0 | 0.05 | 76 | 36 | 143 | 0.1 | 74 | 30 | 5.5 | 1650 | 617 | 20000 | 18 | 1.0 | 0.4 |
| T-86-153 | 2.0 | 0.05 | 33 | 8 | 160 | 0.1 | 271 | 46 | 8.8 | 1320 | 1550 | 20000 | 7 | 0.5 | 0.6 |
| T-86-154 | 1.5 | 0.10 | 124 | 33 | 238 | 0.3 | 81 | 31 | 5.3 | 1760 | 633 | 20000 | 15 | 0.5 | 0.5 |
| T-86-155 | 1.0 | 0.05 | 103 | 55 | 184 | 0.1 | 78 | 35 | 5.6 | 2200 | 414 | 20000 | 17 | 0.5 | 1.0 |
| T-86-156 | 2.0 | 0.10 | 107 | 57 | 125 | 0.2 | 75 | 41 | 6.3 | 1870 | 1635 | 17250 | 39 | 2.0 | 0.7 |
| T-86-157 | 2.0 | 0.05 | 182 | 101 | 469 | 0.1 | 73 | 26 | 5.7 | 1540 | 1140 | 18880 | 73 | 2.0 | 5.9 |
| T-86-158 | 1.5 | 0.30 | 160 | 186 | 100 | 0.1 | 40 | 19 | 8.9 | 858 | 419 | 12500 | 250 | 11.0 | 3.3 |
| T-86-159 | 4.0 | 0.40 | 65 | 14 | 81 | 0.1 | 62 | 22 | 4.6 | 1760 | 1600 | 15210 | 17 | 1.0 | 0.9 |
| T-86-160 | 1.0 | 0.10 | 32 | 30 | 278 | 0.2 | 48 | 18 | 4.3 | 1100 | 2060 | 11090 | 23 | 1.0 | 0.7 |
| T-86-162 | 2.0 | 0.10 | 41 | 40 | 130 | 0.1 | 56 | 21 | 5.5 | 1100 | 4620 | 11500 | 18 | 0.5 | 0.5 |
| T-86-163 | 2.0 | 0.05 | 33 | 26 | 136 | 0.1 | 52 | 19 | 5.3 | 880 | 6100 | 11360 | 16 | 0.5 | 0.7 |
| T-86-167 | 15.0 | 0.10 | 70 | 105 | 365 | 0.2 | 46 | 18 | 4.1 | 3850 | 507 | 12040 | 33 | 0.5 | 0.9 |
| T-86-194 | 1.5 | 0.05 | 75 | 292 | 99 | 0.1 | 19 | 15 | 10.1 | 825 | 142 | 3860 | 624 | 44.0 | 7.3 |
| T-86-195 | 1.5 | 0.10 | 213 | 230 | 163 | 0.2 | 43 | 19 | 6.8 | 550 | 740 | 9410 | 158 | 11.0 | 9.8 |
| T-86-198 | 1.0 | 0.05 | 154 | 122 | 180 | 0.1 | 62 | 25 | 8.9 | 1210 | 129 | 6820 | 90 | 13.0 | 6.7 |
| T-86-199 | 2.0 | 0.05 | 74 | 42 | 237 | 0.1 | 53 | 17 | 5.5 | 1155 | 225 | 8470 | 33 | 2.0 | 2.2 |
| T-86-200 | 1.5 | 0.10 | 56 | 39 | 175 | 0.3 | 44 | 21 | 5.2 | 1650 | 309 | 10410 | 29 | 0.5 | 0.7 |
| T-86-203 | 1.5 | 0.05 | 204 | 79 | 224 | 0.1 | 44 | 20 | 8.9 | 1320 | 390 | 9340 | 88 | 7.0 | 7.7 |
| T-86-204 | 1.0 | 0.05 | 108 | 142 | 139 | 0.1 | 41 | 17 | 8.9 | 1100 | 138 | 8680 | 142 | 10.0 | 3.1 |
| T-86-205 | 1.5 | 0.05 | 221 | 120 | 298 | 0.1 | 141 | 91 | 6.9 | 1980 | 858 | 11720 | 150 | 4.0 | 3.8 |
| T-86-206 | 1.5 | 0.05 | 123 | 55 | 166 | 0.1 | 75 | 24 | 5.9 | 968 | 77 | 48 | 110 | 3.0 | 6.0 |
| T-86-207 | 3.0 | 0.05 | 48 | 33 | 172 | 0.1 | 54 | 18 | 5.0 | 1265 | 270 | 12745 | 37 | 0.5 | 3.6 |
| T-86-208 | 3.0 | 0.05 | 42 | 30 | 149 | 0.1 | 52 | 21 | 5.1 | 1265 | 392 | 11460 | 25 | 0.5 | 0.8 |
| T-86-209 | 1.5 | 0.05 | 37 | 50 | 146 | 0.1 | 67 | 22 | 5.0 | 1210 | 140 | 11220 | 23 | 0.5 | 1.0 |
| T-86-210 | 1.0 | 0.05 | 72 | 62 | 150 | 0.1 | 78 | 36 | 5.6 | 2310 | 395 | 12930 | 20 | 0.5 | 2.8 |
| T-86-211 | 1.0 | 0.05 | 47 | 78 | 149 | 0.1 | 43 | 24 | 4.6 | 3740 | 100 | 3830 | 21 | 0.5 | 1.5 |

## ANOMALY VALUE KEY




## STATISTICS

| | SILVER | COPPER | LEAD | ZINC | CADMIUM | NICKEL | COBALT |
|---|---|---|---|---|---|---|---|
| SAMPLE SIZE | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| AVERAGE | 0.10 | 85 | 46 | 152 | 0.1 | 56 | 24 |
| MEDIAN | 0.05 | 59 | 32 | 133 | 0.1 | 53 | 21 |
| MODE | 0.05 | 48 | 17 | 105 | 0.1 | 54 | 18 |
| STANDARD DEVIATION | 0.14 | 142 | 47 | 85 | 0.1 | 24 | 12 |
| MINIMUM | 0.05 | 19 | 8 | 43 | 0.1 | 2 | 9 |
| MAXIMUM | 1.4 | 1430 | 347 | 700 | 1.4 | 271 | 103 |
| 95th PERCENTILE | 0.39 | 195 | 144 | 304 | 0.29 | 93 | 43 |

| | IRON | MANGANESE | CALCIUM | MAGNESIUM | ARSENIC | MOLYBDENUM | URANIUM |
|---|---|---|---|---|---|---|---|
| SAMPLE SIZE | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| AVERAGE | 5.4 | 1797 | 1409 | 10907 | 35 | 1.7 | 1.2 |
| MEDIAN | 5.1 | 1430 | 559 | 10755 | 21 | 0.5 | 0.7 |
| MODE | 5.0 | 1540 | 414 | 20000 | 20 | 0.5 | 0.7 |
| STANDARD DEVIATION | 2.8 | 1306 | 2155 | 3881 | 56 | 4.7 | 1.6 |
| MINIMUM | 2.6 | 374 | 1 | 48 | 7 | 0.5 | 0.2 |
| MAXIMUM | 36.9 | 7700 | 15800 | 20000 | 624 | 44 | 9.8 |
| 95th PERCENTILE | 7.6 | 4880 | 5600 | 19900 | 104 | 9.7 | 5.9 |


Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada

Canada-Nova Scotia Mineral Development Agreement

Nova Scotia Department of Mines and Energy


## DESCRIPTIVE NOTES

1. The clay fraction (<0.002 mm) of till samples collected in northern Nova Scotia was analyzed for a series of 14 elements. The letter "a" represents the surface till and ensuing letters represent deeper till samples.

2. All elements were analyzed by atomic absorption spectrophotometry except As (colorimetry) and U (fluorometry). Analyses were completed by Bondar-Clegg and Co. Ltd., Ottawa.

3. Anomalous values are taken to be all values greater than or equal to the 95th percentile of the cumulative frequency distribution. These are shown as darkened numbers in the analyses list.

4. The "Anomaly Value" equals the analytical value (ppm or percent) divided by the 95th percentile value. The anomaly values are represented by star symbols. The spike length corresponds to the strength of the anomaly (refer to Anomaly Value Key). Anomalous samples are italicized on the map.

OPEN FILE MAP 88-050
MAP-13-88